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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/538,724

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Barry W Hutzel

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EXAMINER

MA, CALVIN

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/538,724	Applicant(s) HUTZEL ET AL.	
	Examiner CALVIN C. MA	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 September 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10, 15, 17, 20-22, 32, 58-60 and 62-68 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10, 15, 17, 20-22, 32, 58-60 and 62-68 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>7/21/2010</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-10, 12-13, 15, 17, 20-22 and 58-68 are rejected under 35 U.S.C. 103(a) as being unpatentable in view of Baratono et al. (US Patent 6,889,064) in view of Bertagna (US Pub: 2001/0043455) and Smith et al. (US Patent 5,999,092).

As to claim 1, Baratono discloses an interior rearview mirror system for (10) a vehicle comprising:

a casing (i.e. the casing 50) (see Fig. 8);

a reflective element (18), said reflective element having a length axis and a width axis (i.e. the rearview mirror 18 has both a length and width axis as shown in figure 8 of Baratono); and

a video display screen (70) slidably mounted at said casing and slidable in a direction generally parallel to said length axis of said reflective element (19) between a non-use position (i.e. the position when the element 70 is in a in position as shown in

figure 7), wherein said video display screen is positioned substantially within said casing (50), and a use position (i.e. the out position as shown in figure 7 where the user is able to see the element 70 in is display functionality) (see Fig. 7), wherein said video display screen is substantially extended from a side of said casing for viewing by an occupant of the vehicle (i.e. as shown in figure 7 and 8 the slidable video display element 70 is able to move between a in and out position that is parallel to the length axis of the mirror 18) (see Fig. 7-8, Col. 5, Lines 36-67).

However Baratono does not explicitly teach wherein said video display screen is extended and retracted in response to a drive system and wherein said drive system comprises one of a linear actuator, a solenoid device, a rack and pinion device, a non-armature electrical motor, a shape memory alloy device, an electrically induced stress-strain device and a bio-material; and wherein said video screen is extended toward said use position in response to a signal indicated of an engagement of the reverse gear of the vehicle, and wherein said video display screen is retracted toward said non-use position in response to a signal indicative of a disengagement of the reverse gear of the vehicle.

Bertagna teaches said video display screen is extended and retracted in response to a drive system and wherein said drive system comprises a solenoid device (i.e. the display drive mechanism is clearly one of a cylindrical actuating solenoid device which allow the display to be in either the stowed position or the extended viewable position) (see Bertagna Fig. 2-4, [0026-0028]). Therefore it would have been obvious for

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one of ordinary skill in the art at the time the invention was made to have used the automatically driving device of Bertagna in the display system of Baratono in order to achieve automatic functionality for the user to enjoy (see Bertagna [0028]).

However Bertagna does not explicitly teach and wherein said video screen is extended toward said use position in response to a signal indicated of an engagement of the reverse gear of the vehicle, and wherein said video display screen is retracted toward said non-use position in response to a signal indicative of a disengagement of the reverse gear of the vehicle, rather Bertagna teaches a specific control signal given to the drive system to activate the change of position from the use position to the retracted position. Smith teaches changing the display state in response to a signal indicated of an engagement of the reverse gear of the vehicle, and changing the display to a signal indicative of a disengagement of the reverse gear of the vehicle (i.e. Smith teaches a user triggering of reverse aid mode of operation based on the reverse gear of the vehicle being engaged) (see Smith Fig. 6, Col. 4, Lines 32-56).

Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the reverse gear engagement actuating event control of Smith in the automated control system of Bertagna which is then used in the overall vehicle display system of Baratono in order to allow the user rear view camera safety monitoring capability to prevent accident (see Smith Col. 2, Lines 7-26).

As to claim 58, Baratono teaches an accessory system for a vehicle (i.e. the system where by the mobile telephone system is implemented in the vehicle) (see Fig. 1) comprising:

an interior rearview mirror assembly having a casing and a reflective element, said reflective element having a length axis and a width axis; and

a display screen (70) movably mounted at said casing (i.e. the casing 50) (see Fig. 8) and movable to move between a non-use position, wherein said display screen is not directly viewable, and a use position, wherein said display screen is substantially extended from a portion of said mirror assembly for viewing by an occupant of the vehicle (i.e. the display unit 70 is able to move to the in and out position as shown in figure 7) (see Fig. 7, 8, Col. 5, Lines 36-67). However, Baratono does not explicitly teach said display screen being automatically moved to said use position in response to an activating event and automatically moved to said non-use position in response to a deactivating event; wherein said video display screen is extended and retracted in response to a drive system and wherein said drive system comprises one of a solenoid device; wherein said activated event comprises an engagement of the reverse gear of the vehicle and wherein said deactivating event comprises a disengagement of the reverse gear of the vehicle. Bertagna teaches display screen being automatically moved to said use position in response to an activating event (i.e. the movable LCD monitor is able to move to operational position from the stowed position) (see Bertagna Fig. 1-2, [0025-0026]) and said video display screen is extended and retracted in response to a drive system and wherein said drive system comprises a solenoid device

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(i.e. the display drive mechanism is clearly one of a cylindrical actuating solenoid device which allow the display to be in either the stowed position or the extended viewable position) (see Bertagna Fig. 2-4, [0026-0028]). Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the automatically driving device of Bertagna in the display system of Baratono in order to achieve automatic functionality for the user to enjoy (see Bertagna [0028]).

Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the electrically powered automated monitor movement method to the vehicle display system of Bertagna in order to make it easier for the user to operate the system.

However Bertagna does not explicitly teach a signal indicated of an engagement of the reverse gear of the vehicle, rather Bertagna teaches a specific control signal given to the drive system to activate the change of position from the use position to the retracted position. Smith teaches changing the display state in response to a signal indicated of an engagement of the reverse gear of the vehicle, and changing the display to a signal indicative of a disengagement of the reverse gear of the vehicle (i.e. Smith teaches a user triggering of reverse aid mode of operation based on the reverse gear of the vehicle being engaged) (see Smith Fig. 6, Col. 4, Lines 32-56).

Therefore it would have been obvious for one of ordinary skill in the art to use the activate deactivate signal control based on reverse gear design of Smith in the system

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of Bertagna and having this system then be applied to the over vehicle display system of Baratono in order to allow the user rear view camera safety monitoring capability to prevent accident (see Smith Col. 2, Lines 7-26).

As to claim 2, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen (70) is mounted to at least one sliding member which is slidable relative to said casing (i.e. as seen clearly in figure 7 the sliding member 70 has a video display on it that is able to slide with respect to the casing of the rear view mirror) (see Fig. 7, Col. 5, Lines 36-55).

As to claim 3, Baratono teaches the interior rearview mirror system of claim 2, wherein said at least one sliding member (70) is slidable along or within a sliding block mounted within said casing (i.e. as shown in both figure 7 and 9 the slidable screen when it is in a in position consists of a block inside of the case of the rear view mirror) (see Fig. 7, 9, Col. 5, Lines 35-60).

As to claim 4, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen is slidable along at least one rail (i.e. the area surrounding the sliding member 70 can be seen as a rail that has the sliding member enclose in the in-ward position) positioned within said casing (see Fig. 9).

As to claims 5 and 6, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen is substantially extended toward one side of the vehicle, however it does not clearly show the direction of the screen as being either toward the driver side of the passenger side, since it did not limit the orientation of the driver layout as being one of designated on the left or on the right. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have applied the design of Baratono in either the left driver setting of automobile customary in the United States or the Right side design used in nations such as Britain and Australia, therefore the artisan can adapt the mirror to automobile in either configuration as the situation warrants such a deployment making the design workable in either the passenger side or the driver side.

As to claim 7, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen is pivotable about a pivot joint when extended to said use position (i.e. since the entire display system are pivotal about the joint 61) (see Fig. 1, Col. 4, Lines 53-60).

As to claim 8, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen is manually movable between said non-use position and said use position (see Fig. 7, Col. 5, Lines 43-53).

As to claim 9, Baratono teaches the interior rearview mirror system of claim 8, wherein said video display screen includes a grip or handle (i.e. the figure 7 drawing clearly shows that the display 70 is designed so that the edge of the display can be grasped by the user) for grasping and pulling said video display screen toward said use position (see Fig. 7-9, Col. 5, Lines 53-65).

As to claim 10, Baratono teaches the interior rearview mirror system of claim 1, wherein said video display screen is biased toward one of said use position and said non-use position (i.e. figure 7 clearly shows the two position In and Out where the screen be made into where one is having the display all the way inside and not showing and the other is outside of the display housing) (see Fig. 7, Col. 5, Lines 43-67).

As to claim 12, Bertagna teaches wherein said video display screen is extended and retracted in response to a drive system (i.e. the movable LCD monitor is able to move to operational position from the stowed position) (see Bertagna Fig. 1-2, [0025-0026]).

As to claim 13, Bertagna teaches interior rearview mirror system of claim 12, wherein said drive system comprises an electrical drive motor (see Bertagna Fig. 1-2, [0025-0026]).

As to claim 14, Bertagna teaches, wherein said video display screen is extended in response to a signal indicative of an activating event (i.e. the electronic signal controlling the activation and deactivation of the monitor) (see Bertagna [0035-0036]).

As to claim 59, Baratono teaches wherein said display screen is at least one of pivotably mounted at said casing and slidably mounted at said casing (i.e. the display screen is pivotably mounted since the whole unit can pivot together) (see Baratono Fig. 1 and Fig 7, Col. 4, Lines 20-45).

As to claim 17, 60, Bertagna teaches wherein said activating event comprises, actuation of a cabin viewing device (i.e. the activation of the entertainment system) (see Bertagna [0031]).

As to claims 20, 61 and 62, Bertagna teaches wherein said video display screen is retracted to said non-use position in response to a signal indicative of a deactivating event, where the deactivation of a cabin viewing device, deactivation of a video communication device (i.e. the aircraft prepares for landing and the system is to be deactivated) (see Bertagna [0035-0036]).

As to claims 21, 63, Bertagna teaches wherein said display screen is automatically movable to said use position in response to multiple activating events (i.e. the system of Bertagna also monitor striking object by the monitor which cause reaction of the system that function together with other actuating event) (see Bertagna [0036]).

As to claims 22, 64, Bertagna teaches accessory system of claim 63, wherein at least one of said activating events and said deactivating events is manually overridable in response to a manual input (i.e. the system of Bertagna also monitor striking object by the monitor which this means that the user can manually activate the actuation of switch 21 cause reaction of the system that function together with other actuating event) (see Bertagna, Fig. 2, [0036]).

As to claim 65, Baratono teaches including a navigation system, said display screen being operable to display at least one of instructions, a compass heading, and a map indicative of a selected route output of said navigation system (i.e. the GPS system is part of the display system) (See Baratono Fig. 4-6, Col. 6, Lines 1-60).

As to claim 66, Baratono and Bertagna teaches said activating event comprises an approach of a waypoint of a selected route (i.e. Bertagna teaches the activation

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event is the plane approaching landing, and since Bertagna also teaches that the system is able to function in any type of vehicular environment this event can be interpreted as arriving the destination of choice) (see Bertagna [0035], [0058]), said display screen displaying said at least one of an instruction and a map pertaining to the waypoint to the driver of the vehicle when said display screen is extended (i.e. since Baratono teaches the display system being a GPS system).

Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to have used the GPS functionality Baratono in addition to the normal device actualization system of Bertagna for actualizing the display movement as it would have been advantageous for the user to be able to see display during situation where additional information is required for navigation purpose, which is the reason that GPS is incorporated into a vehicle in the first place.

As to claims 67 and 68 Bertagna teaches wherein said display screen is retracted after the vehicle has passed the waypoint (i.e. detecting the vehicle close to landing which necessarily it a point in the route that the vehicle traveled) (see Bertagna [0035]).

Response to Arguments

Applicant's arguments with respect to claims 1-10, 12-13, 15, 17, 20-22 and 58-68 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CALVIN C. MA whose telephone number is (571)270-1713. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quan-Zhen Wang can be reached on 571-272-3114. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Calvin Ma
October 4, 2010

/Quan-Zhen Wang/
Supervisory Patent Examiner, Art Unit 2629